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PTO/SB/01 (10-00)  
Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>  <input type="checkbox"/> Declaration Submitted with Initial Filing <b>OR</b> <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	<b>Attorney Docket Number</b>	MBX 041
	<b>First Named Inventor</b>	Stephanie Aquin
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	09 / 991,152
	<b>Filing Date</b>	November 16, 2001
	<b>Group Art Unit</b>	1645
<b>Examiner Name</b>		

**As a below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PRODUCTION OF MEDIUM CHAIN LENGTH POLYHYDROXYALKANOATES FROM FATTY ACID BIOSYNTHETIC PATHWAYS**

(Title of the Invention)

the specification of which

☐ is attached hereto

**OR**

☒ was filed on (MM/DD/YYYY) **11/16/2001** as United States Application Number or PCT International

Application Number **09/991,152** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	
60/249,535	11/17/2000	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

MBX 041  
077832/00040

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number or Bar Code Label  OR ☒ Correspondence address below

Name Patrea L. Pabst

Address One Atlantic Center

Address 1201 West Peachtree Stree, suite 2000

City Atlanta

State GA

ZIP 30309-3400

Country United States of America

Telephone 404.817.8500

Fax 404.817.8588

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle [if any]) Stephanie

Family Name  
or Surname Aquin

Inventor's  
Signature

*Stephanie Aquin*

27 feb. 2002  
Date

Residence: City Montreal

Quebec  
State

CANADA  
Country

Citizenship CA

Mailing Address 4927 Grosvenor

Mailing Address

City Montreal

State Quebec

ZIP H3W 2M2

Country CANADA

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle [if any]) Oliver P.

Family Name  
or Surname Peoples

Inventor's  
Signature

Date

Residence: City Arlington

State MA

Country USA

Citizenship Scotland

Mailing Address 27 Radcliffe Road

Mailing Address

City Arlington

State MA

ZIP 02474

Country Scotland

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Title: "PRODUCTION OF MEDIUM CHAIN LENGTH  
POLYHYDROXYALKANOATES FROM FATTY ACID BIOSYNTHETIC PATHWAYS  
Filed: November 16, 2001

Please type a plus sign (+) inside this box → ☐

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## DECLARATION

**ADDITIONAL INVENTOR(S)**  
**Supplemental Sheet**  
Page 1 of 1

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Kristi D.		Snell	
<b>Inventor's Signature</b>		<b>Date</b>	
<b>Residence: City</b> Belmont	<b>State</b> MA	<b>Country</b> USA	<b>Citizenship</b> USA
<b>Mailing Address</b> 15 Gorham Road			
<b>Mailing Address</b>			
<b>City</b> Belmont	<b>State</b> MA	<b>ZIP</b> 02478	<b>Country</b> USA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
<b>Inventor's Signature</b>		<b>Date</b>	
<b>Residence: City</b>	<b>State</b>	<b>Country</b>	<b>Citizenship</b>
<b>Mailing Address</b>			
<b>Mailing Address</b>			
<b>City</b>	<b>State</b>	<b>ZIP</b>	<b>Country</b>
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
<b>Inventor's Signature</b>		<b>Date</b>	
<b>Residence: City</b>	<b>State</b>	<b>Country</b>	<b>Citizenship</b>
<b>Mailing Address</b>			
<b>Mailing Address</b>			
<b>City</b>	<b>State</b>	<b>ZIP</b>	<b>Country</b>

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)</b>  <input type="checkbox"/> Declaration Submitted with Initial Filing      OR <input checked="" type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	<b>Attorney Docket Number</b>	MBX 041
	<b>First Named Inventor</b>	Stephanie Aquin
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	09 / 991,152
	<b>Filing Date</b>	November 16, 2001
	<b>Group Art Unit</b>	1645
<b>Examiner Name</b>		

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PRODUCTION OF MEDIUM CHAIN LENGTH POLYHYDROXYALKANOATES FROM  
FATTY ACID BIOSYNTHETIC PATHWAYS

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

11/16/2001

as United States Application Number or PCT International

Application Number

09/991.152

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

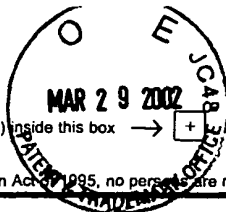
Application Number(s)	Filing Date (MM/DD/YYYY)	
60/249,535	11/17/2000	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number  OR ☒ Correspondence address below

Name Patrea L. Pabst

Address One Atlantic Center

Address 1201 West Peachtree Stree, suite 2000

City Atlanta

State GA

ZIP 30309-3400

Country United States of America

Telephone 404.817.8500

Fax 404.817.8588

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name Stephanie  
(first and middle [if any])

Family Name Aquin  
or Surname

Inventor's  
Signature

Date

Residence: City Cambridge

State MA

Country USA

Citizenship USA

Mailing Address 33 Lee Street

Mailing Address

City Cambridge

State MA

ZIP 02139-2241

Country USA

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name Oliver P.  
(first and middle [if any])

Family Name Peoples  
or Surname

Inventor's  
Signature

Date

Residence: City Arlington

State MA

Country USA

Citizenship Scotland

Mailing Address 27 Radcliffe Road

Mailing Address

City Arlington

State MA

ZIP 02474

Country Scotland

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

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Title: "PRODUCTION OF MEDIUM CHAIN LENGTH  
POLYHYDROXYALKANOATES FROM FATTY ACID BIOSYNTHETIC PATHWAYS

Filed: November 16, 2001

Please type a plus sign (+) inside this box

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## DECLARATION

### ADDITIONAL INVENTOR(S)

#### Supplemental Sheet

Page 1 of 1

<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Kristi D.		Snell	
Inventor's Signature <i>Kristi D. Snell</i>		Date 12/19/01	
Residence: City	Belmont	State	MA
Country	USA	Citizenship	USA
Mailing Address 15 Gorham Road			
Mailing Address			
City	Belmont	State	MA
ZIP	02478	Country	USA
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
Country		Citizenship	
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	
<b>Name of Additional Joint Inventor, if any:</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
Country		Citizenship	
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	

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## POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	09/991,152
Filing Date	November 16, 2001
First Named Inventor	Stephanie Aquin
Title	Production of Medium Chain Length Polyhydroxyalkanoates from Fatty Acid Biosynthetic Pathways
Group Art Unit	1645
Examiner Name	
Attorney Docket Number	MBX 041

I hereby appoint:

☐ Practitioners at Customer Number

Place Customer  
Number Bar Code  
Label here

OR

☒ Practitioner(s) named below:

Name	Registration Number
Patrea L. Pabst	31,284
Zhaoyang Li	46,872
Rivka D. Monheit	48,731
Yang Xu	45,243

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

Place Customer  
Number Bar Code  
Label here

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Patrea L. Pabst; Holland & Knight LLP				
Address	Suite 2000, One Atlantic Center				
Address	1201 West Peachtree Street, N.E.				
City	Atlanta	State	GA	Zip	30309-3400
Country	USA				
Telephone	(404) 817-8473	Fax	(404) 817-8588		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

### SIGNATURE of Applicant or Assignee of Record

Name Metabolix, Inc.

Signature

*[Handwritten Signature]*

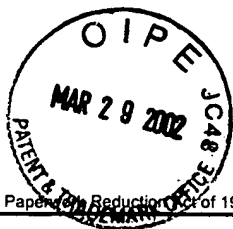
Date

12/18/01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒ \*Total of 1 forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Stephanie Aquin, Oliver P. Peoples, and Kristi D. Snell  
Application No./Patent No.: 09/991,152 Filed/Issue Date: November 16, 2001  
Entitled: PRODUCTION OF MEDIUM CHAIN LENGTH POLYHYDROXYALKANOATES  
FROM FATTY ACID BIOSYNTHETIC PATHWAYS  
Metabolix, Inc., a Corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.  
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.  
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

12/18/01  
Date

OLIVER P. PEOPLES  
Typed or printed name  
[Signature]  
Signature  
VPR & D  
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

MBX 041 077832/00040



## ASSIGNMENT

We, Stephanie Aquin of 4927 Grosvenor, Montreal, Quebec, CANADA H3W 2M2, Oliver P. Peoples of 27 Radcliffe Road, Arlington, Massachusetts 02474, and Kristi D. Snell of 15 Gorham Road, Belmont, Massachusetts 02478, in consideration of ten dollars and other valuable consideration paid to us by Metabolix, Inc., a corporation of the Commonwealth of Massachusetts, having its principal place of business at 303 Third Street, 2nd Floor, Cambridge, Massachusetts 02142-1196, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said Metabolix, Inc., its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Production of Medium Chain Length Polyhydroxyalkanoates from Fatty Acid Biosynthetic Pathways*" described in U.S. Application Serial No. 09/991,152 filed in the United States Patent and Trademark Office on November 16, 2001, by Stephanie Aquin, Oliver P. Peoples, and Kristi D. Snell, which claims priority to U.S. Provisional Application Serial No. 60/249,535 filed in the United States Patent and Trademark Office on November 17, 2000, by Stephanie Aquin, Oliver P. Peoples, and Kristi D. Snell, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Production of Medium Chain Length Polyhydroxyalkanoates  
from Fatty Acid Biosynthetic Pathways"

By: Stephanie Aquin, Oliver P. Peoples, and Kristi D. Saell

Filed: November 16, 2001

ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and  
Trademarks of the United States to issue such Letters Patent as shall be granted upon said  
application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 27<sup>th</sup> day of february, 2002.

Stephanie Aquin  
Stephanie Aquin

Witnesses:

1. Signed: [Signature]  
Printed Name: ALBERT DESCOTEAUX  
Address: 12079 rue SAINT-ÉVARISTE  
MONTREAL, QC H4J 2B6 CANADA
2. Signed: [Signature]  
Printed Name: CHRISTIAN HARDTKE  
Address: 4927 RUE GROSVENOR  
MONTREAL, QUÉBEC, H3W 2M2, CANADA

Title: "Production of Medium Chain Length Polyhydroxyalkanoates  
from Fatty Acid Biosynthetic Pathways"

By: Stephanie Aquin, Oliver P. Peoples, and Kristi D. Snell

Filed: November 16, 2001

ASSIGNMENT

WITNESS my hand and seal this 18<sup>th</sup> day of DECEMBER, 2001.

Oliver P. Peoples  
Oliver P. Peoples

Commonwealth of Massachusetts )

County of Middlesex )

Then personally appeared the above named Oliver P. Peoples and acknowledged the foregoing instrument to be his free act and deed, before me this 18<sup>th</sup> day of December, 2001.

MY COMMISSION EXPIRES  
JANUARY 24, 2008

Dawn T. Satt  
Notary Public

My Commission expires: \_\_\_\_\_

Title: "Production of Medium Chain Length Polyhydroxyalkanoates  
from Fatty Acid Biosynthetic Pathways"  
By: Stephanie Aquin, Oliver P. Peoples, and Kristi D. Snell  
Filed: November 16, 2001  
ASSIGNMENT

WITNESS my hand and seal this 26<sup>th</sup> day of FEBRUARY, 2002.

Kristi D. Snell  
Kristi D. Snell

Commonwealth of Massachusetts )  
County of Middlesex )

Then personally appeared the above named Kristi D. Snell and acknowledged the  
foregoing instrument to be her free act and deed, before me this 26<sup>th</sup> day of  
February, 2002.

Don T. Satt  
Notary Public

MY COMMISSION EXPIRES  
JANUARY 24, 2008

My Commission expires: \_\_\_\_\_

ATL1 #496625 v1